



(19)

(11) Publication number: **01**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **08352980**(51) Intl. Cl.: **C25D 3/20 C25D 5/30 C25D**(22) Application date: **12.12.96**

(30) Priority: 21.12.95 JP 07350363	(71) Applicant: TOYOTA CENTRAL RI LAB INC TOYOTA MOTOR COF
(43) Date of application publication: 02.09.97	(72) Inventor: KAJINO MASAKI SUZUKI KENICHI MIURA FUSAYOSHI NITOU TAKEHIRO KODAMA SATOSHI
(84) Designated contracting states:	(74) Representative:

**(54) CORROSION
RESISTANT IRON PLATING
FILM AND PLATING
METHOD**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an iron plating film and a plating method excellent in corrosion resistance, especially resistance against acid and which can be preferably used as a reinforcing film for aluminum or aluminum alloy.

SOLUTION: A plating bath consisting of a soln. containing iron ion and urea is used to form an iron plating film containing 0.02 to 0.5wt.% nitrogen on the surface of a body comprising aluminum or aluminum alloy by an electric reducing method. By incorporating nitrogen into the iron plating film, the nitrogen-contg. film acts as an alkali against the acid which

09228092 A

is in contact with the film or intrudes into the film and the film neutralizes the acid. Thus, the corrosion resistance, especially acid resistance can be improved.

COPYRIGHT: (C)1997,JPO